

## **ABSTRACT**

### **OPTICAL AMPLIFYING MATERIALS**

An optical amplifying material is described, consisting of a support and having coated thereon a thin, transparent amplifying layer containing nanocrystalline, nanoporous aluminum oxides and/or aluminum oxide/hydroxides and, optionally, a binder, and, superposed on this layer, a luminescence layer preferably consisting of tris(8-hydroxyquinoline) aluminum.